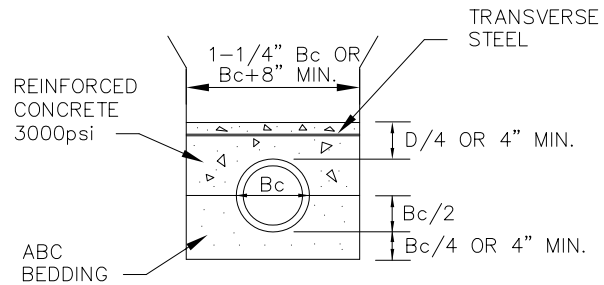


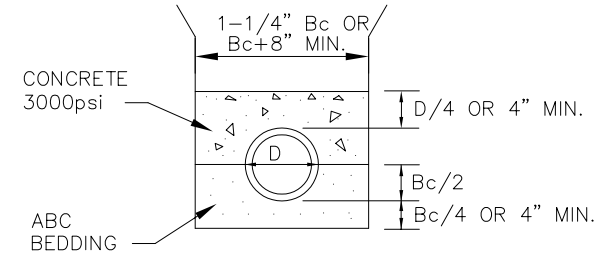
ALLOWABLE V.C.P. TRENCH LOADING

PIPE SIZE (INCHES)	V.C.P. THREE EDGE BEARING STRENGTH MIN.	ALLOWABLE TRENCH LOAD PER CLASS OF BENDING		
		SOIL WT.=130#/CU. FT. SAFETY FACTOR=1.5		
		CLASS A-I L.F.=3.4	CLASS A L.F.=2.8	CLASS B-I L.F.=2.2
8	2200	4987	4107	3227
10	2400	5440	4480	3520
12	2600	5893	4853	3813
15	2900	6573	5413	4253
18	3300	7480	6160	4840
21	3850	8727	7187	5647
24	4400	9973	8213	6453
27	4400	10653	8773	6893
30	5000	11333	9333	7333
33	5500	12467	10267	8067
36	6000	13600	11200	8800
39	6600	14960	12320	9680



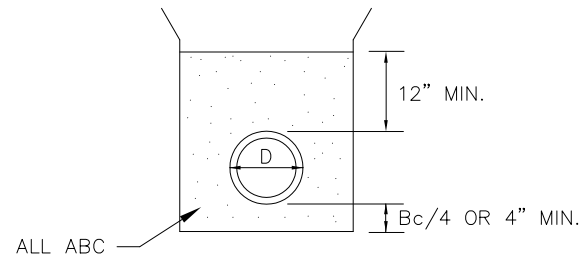
CLASS A-1

LOAD FACTOR: 3.4 REINFORCED CONCRETE, $p=0.4\%$



CLASS A

LOAD FACTOR: 2.8 PLAIN CONCRETE



CLASS B-I

LOAD FACTOR: 2.2 ABC ENCASEMENT

NOTES

MAG SECTION 601 AND CITY OF GOODYEAR SUPPLEMENT APPLIES FOR FOUNDATION, BEDDING, BACKFILL, MATERIALS AND COMPACTION.

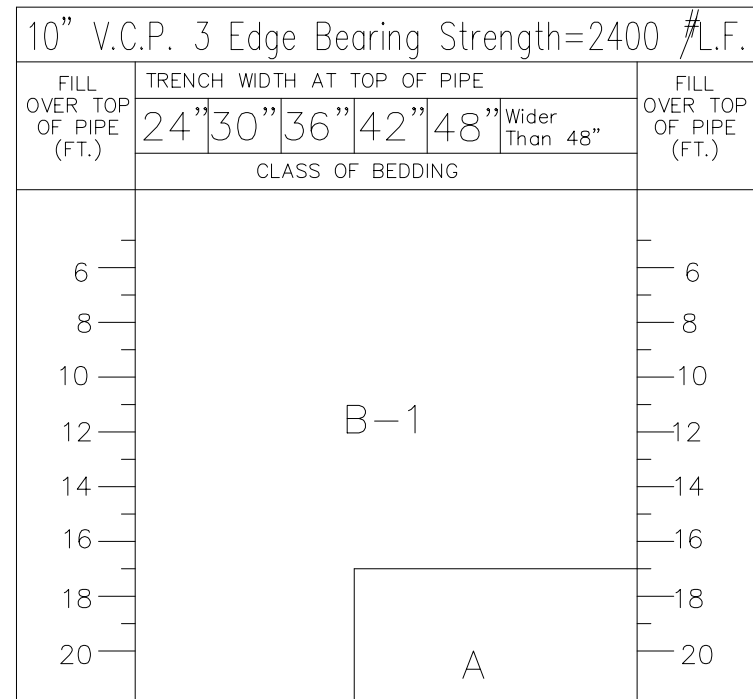
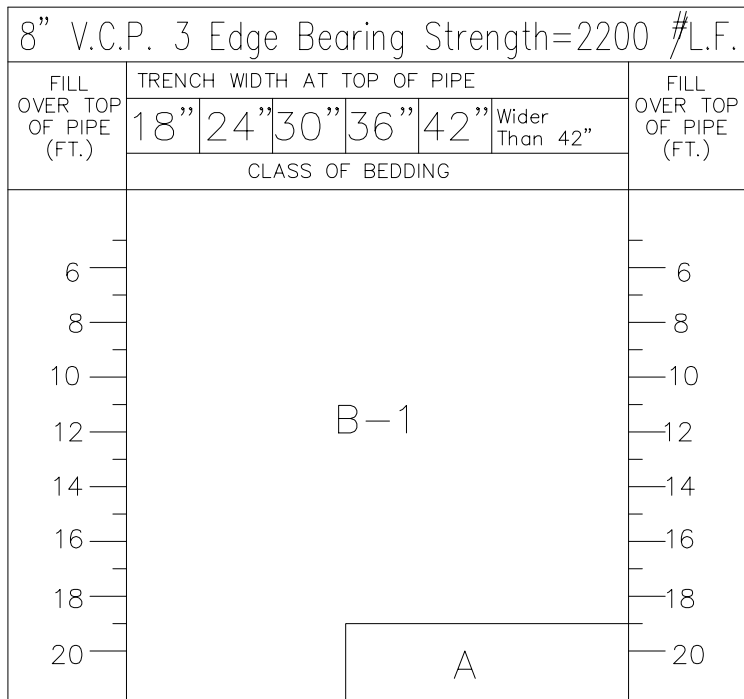
DETAIL NO.
G-3420

CITY OF GOODYEAR
STANDARD DETAIL

APPROVED BY:
Goodyear Standards and
Policies Committee 7/97

V.C.P. TRENCH LOADING

DETAIL NO.
G-3420



SEE DETAIL G-3420 FOR BEDDING DETAILS

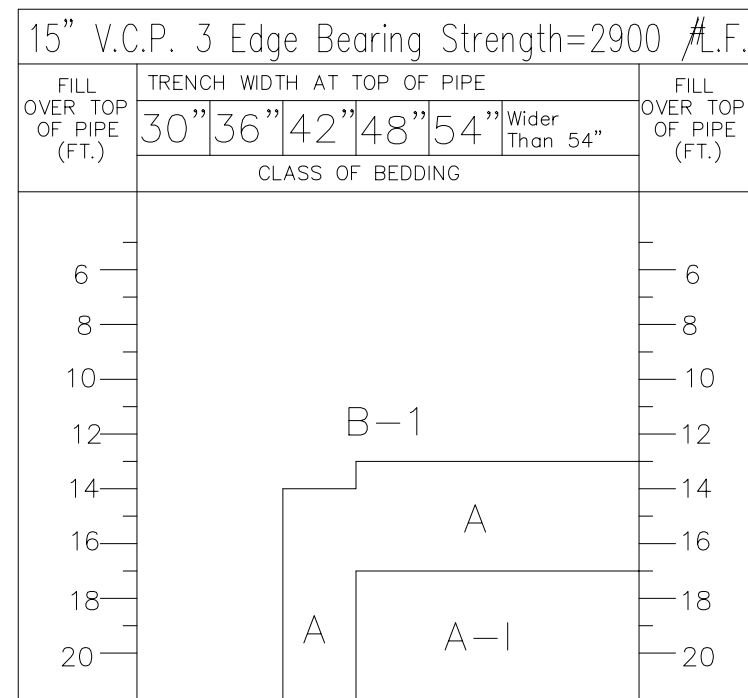
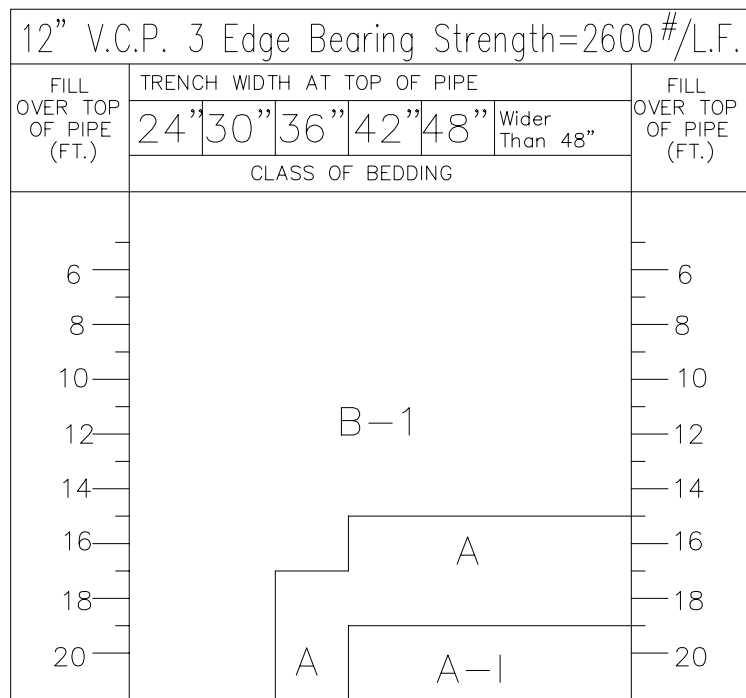
DETAIL NO.
G-3421

CITY OF GOODYEAR
STANDARD DETAIL

APPROVED BY:
Goodyear Standards and
Policies Committee 7/97

8" & 10" V.C.P. TRENCH LOADING

DETAIL NO.
G-3421



SEE DETAIL G-3420 FOR BEDDING DETAILS

DETAIL NO.
G-3422

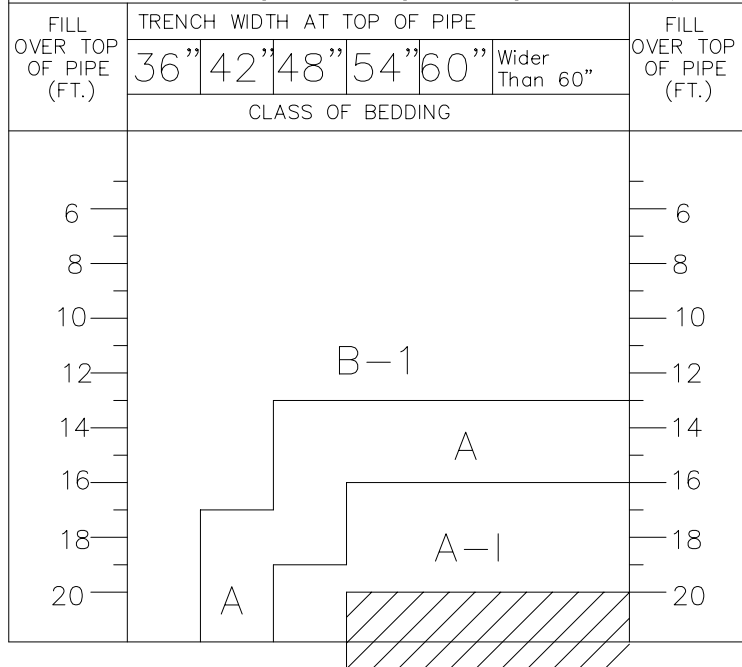
CITY OF GOODYEAR
STANDARD DETAIL

APPROVED BY:
Goodyear Standards and
Policies Committee 7/97

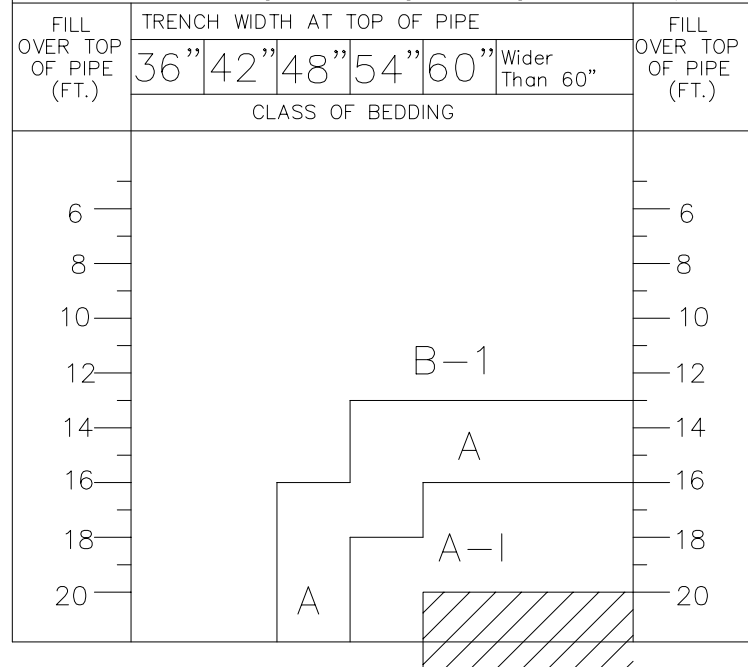
12" & 15" V.C.P. TRENCH LOADING

DETAIL NO.
G-3422

18" V.C.P. 3 Edge Bearing Strength=3300 #/L.F.



21" V.C.P. 3 Edge Bearing Strength=3850 #/L.F.



SEE DETAIL G-3420 FOR BEDDING DETAILS

REQUIRES DESIGN ACTION

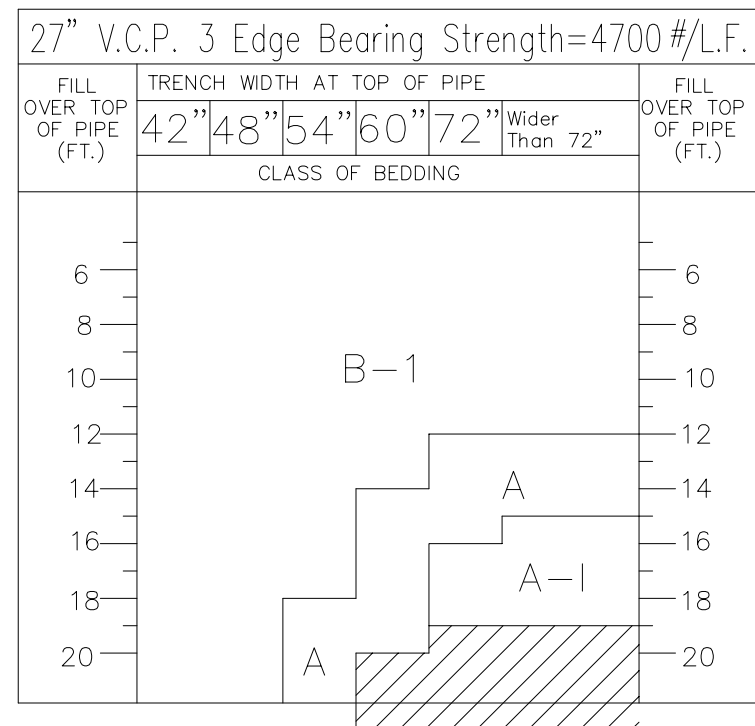
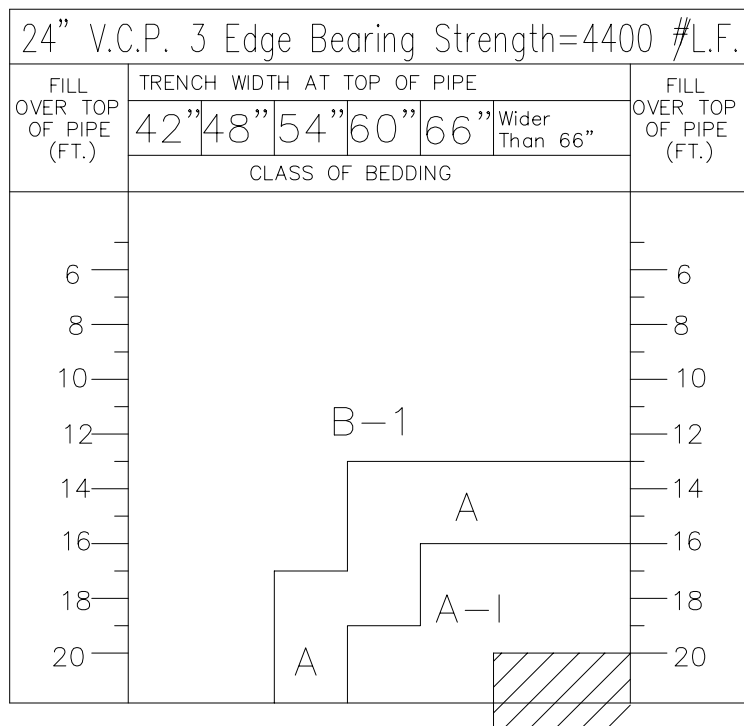
DETAIL NO.
G-3423

CITY OF GOODYEAR
STANDARD DETAIL

APPROVED BY:
Goodyear Standards and
Policies Committee 7/97

18" & 21" V.C.P. TRENCH LOADING

DETAIL NO.
G-3423



SEE DETAIL G-3420 FOR BEDDING DETAILS

REQUIRES DESIGN ACTION

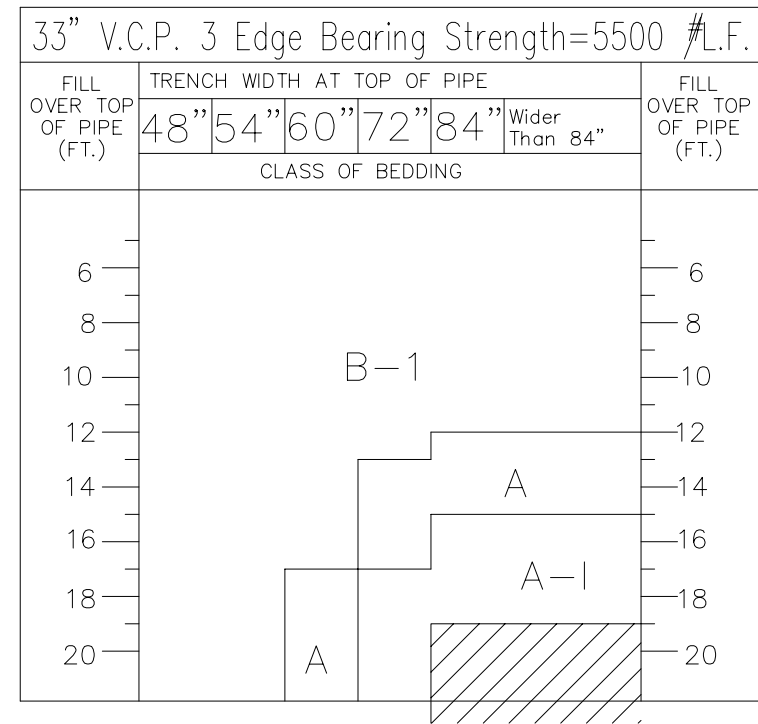
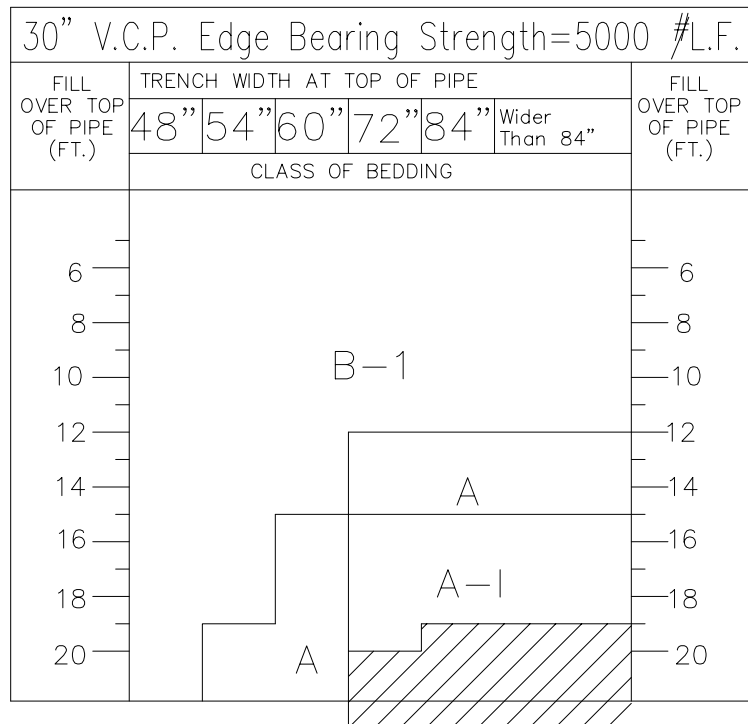
DETAIL NO.
G-3424

CITY OF GOODYEAR
STANDARD DETAIL

APPROVED BY:
Goodyear Standards and
Policies Committee 7/97

24" & 27" V.C.P. TRENCH LOADING

DETAIL NO.
G-3424



 REQUIRES DESIGN ACTION

SEE DETAIL G-3425 FOR BEDDING DETAILS

DETAIL NO.
G-3425

CITY OF GOODYEAR
STANDARD DETAIL

APPROVED BY:
Goodyear Standards and
Policies Committee 7/97

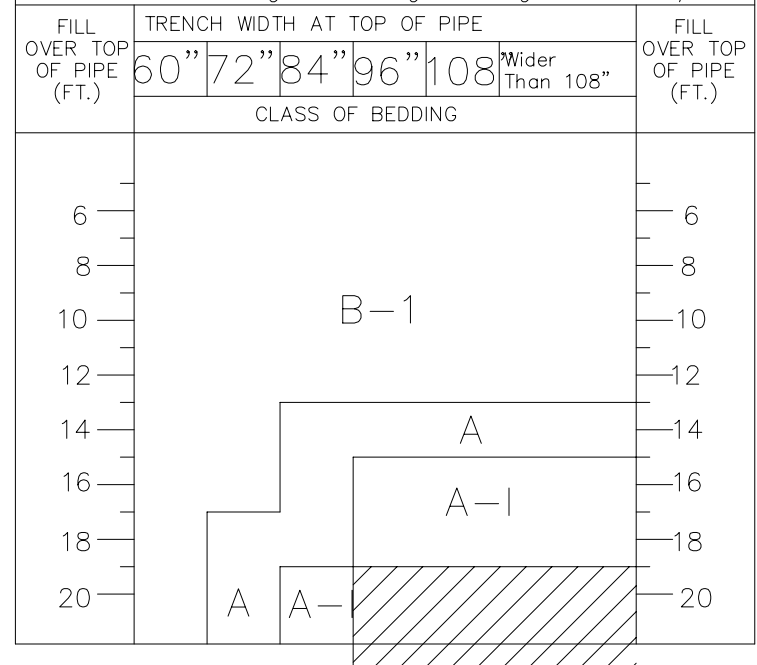
30" & 33" V.C.P. TRENCH LOADING

DETAIL NO.
G-3425

ALLOWABLE V.C.P. TRENCH LOADING

PIPE SIZE (Inches)	V.C.P. Three Edge Bearing Strength Min.	ALLOWABLE TRENCH WIDTH PER CLASS OF BEDDING SOIL WT.=130 #/Cu. Ft.—Safety Factor=1.5			
		Class A-1 L.F.=3.4	Class A L.F.=2.8	Class B-1 L.F.=2.2	
42	7000	15867	13067	10267	

42" V.C.P. 3 Edge Bearing Strength=7000 #/L.F.



SEE DETAIL G-3420 FOR BEDDING DETAILS



REQUIRES DESIGN ACTION

DETAIL NO.
G-3427

CITY OF GOODYEAR
STANDARD DETAIL

APPROVED BY:
Goodyear Standards and
Policies Committee 7/97

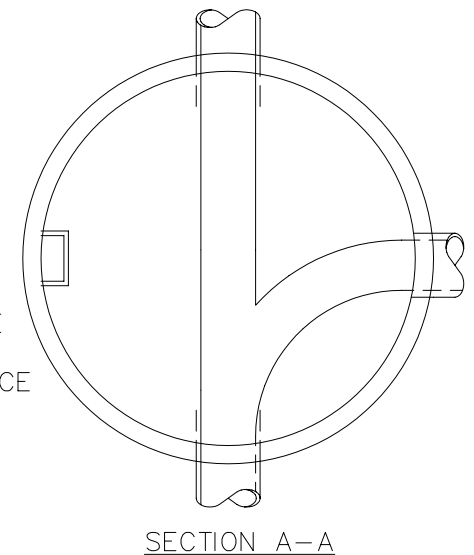
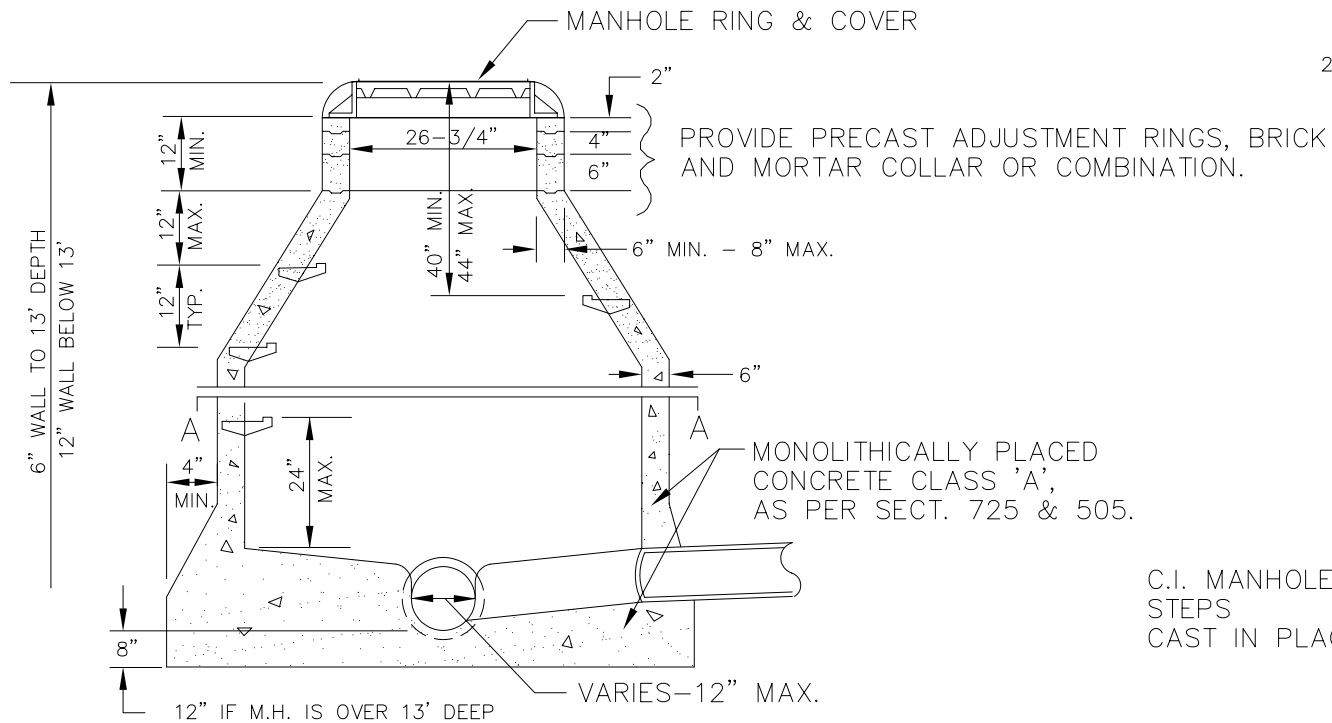
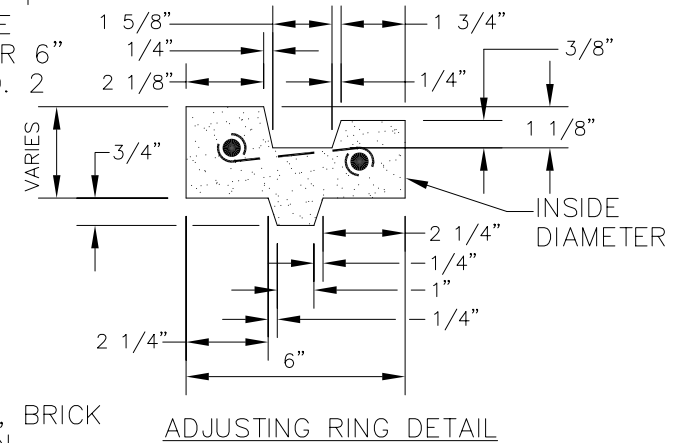
42" V.C.P. TRENCH LOADING

DETAIL NO.
G-3427

NOTES

PRECAST MANHOLES WHICH HAVE BEEN APPROVED FOR USE BY THE WATER AND SEWER DEPARTMENT, ARE ACCEPTABLE SUBSTITUTES. DIMENSIONS AND MATERIAL SHALL CONFORM TO THE CAST-IN-PLACE DETAIL SHOWN BELOW. INDIVIDUAL UNITS WILL BE INSPECTED AND STAMPED BY THE DIVISION OF FIELD ENGINEERING PRIOR TO DELIVERY TO THE SITE.

2-NO. 2 HOOPS FOR 4" OR THINNER RING. TIE WITH NO. 4 WIRE. FOR 6" AND OVER USE 4 NO. 2 HOOPS.



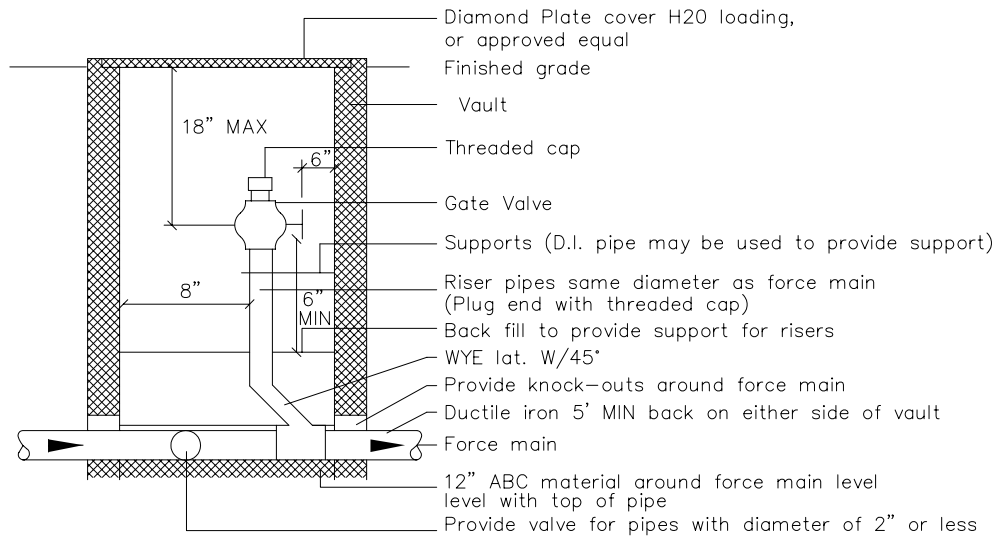
DETAIL NO.
G-3430

CITY OF GOODYEAR
STANDARD DETAIL

APPROVED BY:
Goodyear Standards and
Policies Committee 7/97

CONCRETE SANITARY SEWER MANHOLE
NON-REINFORCED & PRECAST

DETAIL NO.
G-3430

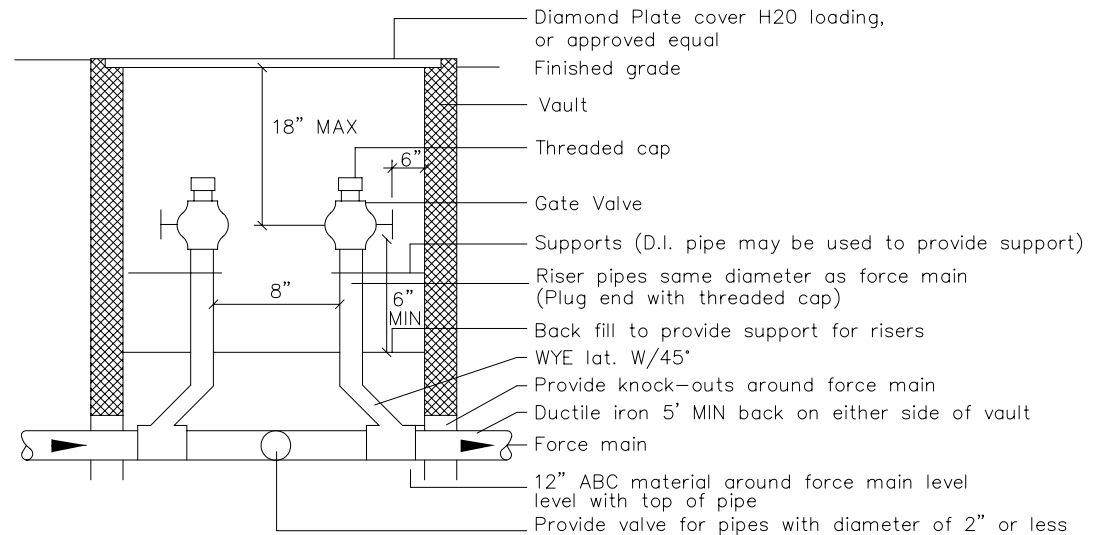


One Way Cleanout

Note: One-way cleanouts shall be installed on maximum 400 foot centers along force main. Rotate vault as required to keep behind back of curb.

Two Way Cleanout

Note: Two-way cleanouts shall be installed on maximum 800 foot centers along force main. Rotate vault as required to keep behind back of curb.



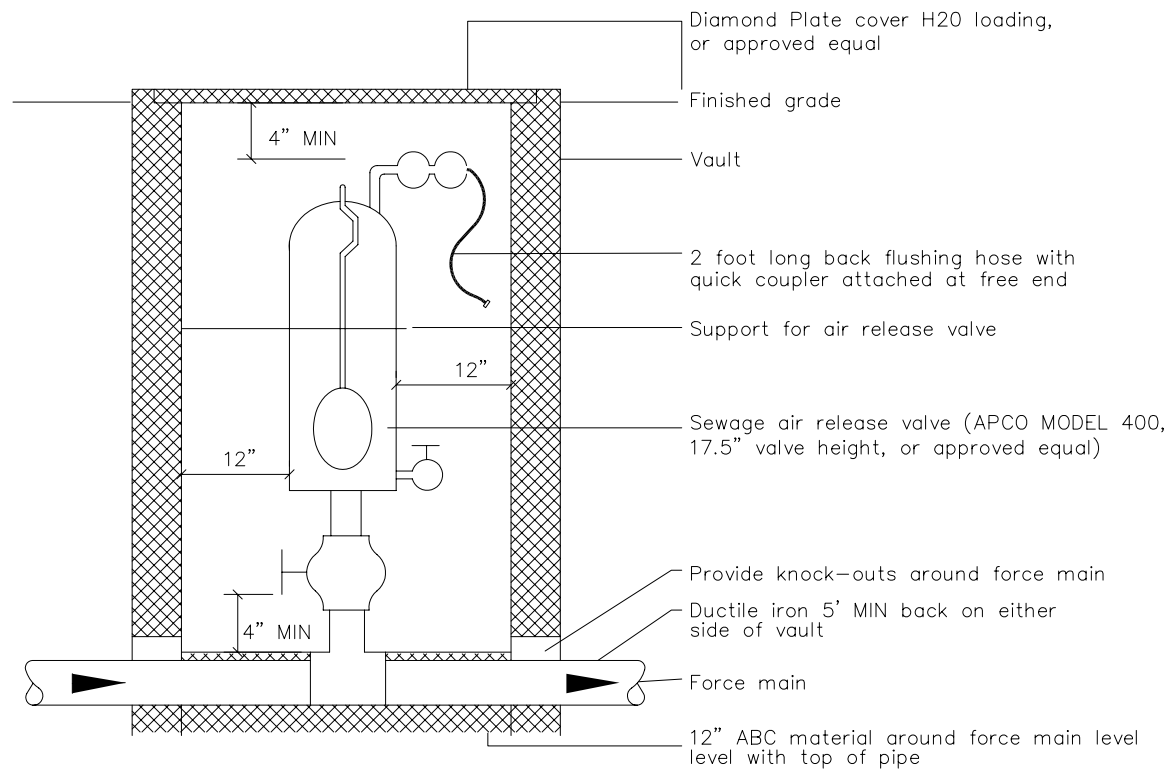
DETAIL NO.
G-3440

CITY OF GOODYEAR
STANDARD DETAIL

APPROVED BY:
Goodyear Standards and
Policies Committee 7/97

FORCE MAIN CLEANOUTS

DETAIL NO.
G-3440



NOTE: Rotate vault as required to keep behind back of curb.

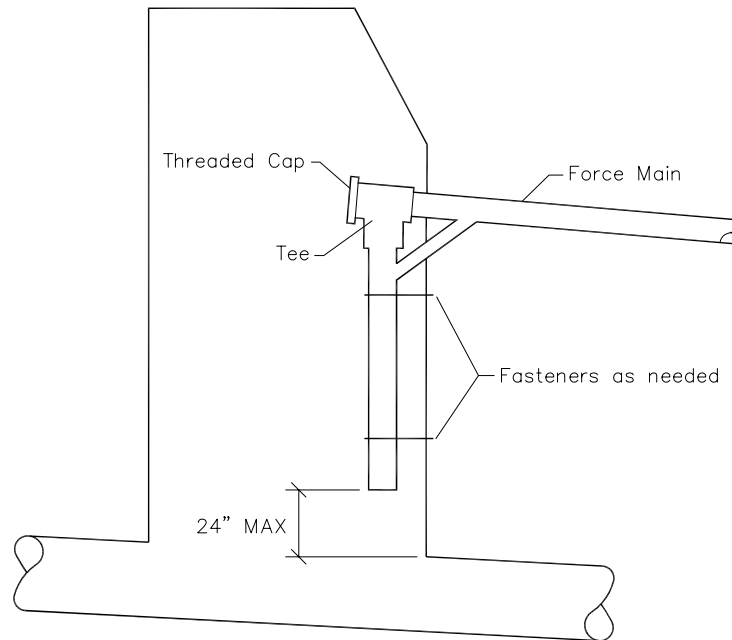
DETAIL NO.
G-3441

CITY OF GOODYEAR
STANDARD DETAIL

APPROVED BY:
Goodyear Standards and
Policies Committee 7/97

SEWAGE AIR RELEASE VALVE

DETAIL NO.
G-3441



NOTE: Discharge outlet shall never be below crown of downstream pipe.

DETAIL NO.
G-3442

**CITY OF GOODYEAR
STANDARD DETAIL**

APPROVED BY:
Goodyear Standards and
Policies Committee 7/97

FORCE MAIN - MANHOLE DISCHARGE

DETAIL NO.
G-3442

